

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A catalyst for dimethyl carbonate synthesis, which is used for producing dimethyl carbonate from acetone dimethyl acetal and  $\text{CO}_2$  in a supercritical state, wherein the catalyst is obtained by loading a strong acid on a carrier composed of a compound having a solid acid site, and wherein the strong acid contains one or more compounds selected from  $\text{SO}_4^{2-}$  and  $\text{PO}_4^{3-}$ .

2. (Cancelled)

3. (Original) The catalyst for dimethyl carbonate synthesis according to claim 1, wherein the compound having a solid acid site is one or more selected from  $\text{ZrO}_2$ ,  $\text{Al}_2\text{O}_3$ , and  $\text{TiO}_2$ .

4. (Cancelled)

5. (Original) The catalyst for dimethyl carbonate synthesis according to claim 3, wherein the specific surface area of the carrier composed of one or more selected from  $\text{ZrO}_2$ ,  $\text{Al}_2\text{O}_3$ , and  $\text{TiO}_2$  is 40 to 200  $\text{m}^2/\text{g}$ .

6. (Cancelled)